



Firmware version 6.600 Incompatibility with High Doppler Values

Background:

Standard GNSS receivers that provide navigation information at speeds in excess of 515 m/s are subject to Canadian export controls. Certain applications require the receiver to operate in excess of these speeds and are provided under export control to customers with the speed limit removed.

Issue Summary:

When the receiver is enabled for high speed operation (-H model), and the reported absolute value of the Doppler of a received satellite signal is in excess of 32767 Hz the receiver will report an error state. These high Doppler values are only expected when the receiver is operating in speeds of greater than 7 km/s.

Product Affected:

OEM6 Series Receivers with firmware version 6.600 a -H high speed enabled model:

OEM060600RH0000 (6.600H) on OEM615

OEM060620RH0000 (6.620H) on OEM628

OMP060601RH0000 (6.601H) on OEM638

Mitigation:

If your receivers are not using a -H high speed enabled model, no action is required.

If your receivers are -H model enabled then it is recommended that you do use a firmware version prior to 6.600. For assistance, please contact support@novatel.com